

$$1_{\text{loop}} f(x) = \ln x, g(x) = ax + \frac{a-1}{x} - 3(a \in R).$$

$$\varphi(x) = f(x) + g(x)$$

$$200000 f(x) = x \ln x + kx - 3k$$

$$200 \xrightarrow{X > 3} 0000 \xrightarrow{f(x) > 1} 0000 \xrightarrow{k} 0000.$$

$$0100 \stackrel{k=-}{=} 100000 \stackrel{f(X)}{=} 0000$$

$$20000 \mathcal{G}(\mathbf{X}) = f(\mathbf{X}) + \hat{\mathcal{C}}_{\mathbf{D}} \mathbf{X} \in (0, +\infty) \quad 000000000 \quad K_{\mathbf{D}} \mathbf{X} \in (0, +\infty)$$

$$300000 f(x) > 3x_{0000} x \in \mathbf{R}_{0000000} k_{00000}$$

$$400000 f(x) = x - \ln x - 2$$

020000
$$f(x)$$
 000 $(3,4)$ 00000000

$$500000 f(x) = \ln x + 2x^2 - ax + 1_0 g(x) = 2x^3 - x^2.$$

$$0100\,{}^{a>\,0}00000\,{}^{f(\;\chi)}00000000000$$

600000
$$f(x) = \frac{1}{a}x^2 + \ln x - \left(2 + \frac{1}{a}\right) X_{0}(a \neq 0)$$

$$010000 \stackrel{f(X)}{\longrightarrow} 000000$$

$$(00000 \ln 3 < \frac{4}{3} \ln \ln 4 > \frac{5}{4})$$

700000
$$f(x) = \ln x - \frac{1}{2}ax^2 + (a-1)x_{a} = \mathbf{R}$$

 $\square 1 \square \square \square f(x) \square \square \square \square$

$$f(x) \le \frac{e^x}{2e^x} - \frac{1}{2}ax^2 - x$$

800000
$$f(x) = a \ln x - (2a+1) x$$
.

900000
$$f(x) = \ln x - a \left(1 - \frac{1}{x}\right) + 1(a \in \mathbf{R})$$

$$0100000 \stackrel{f(X)}{\longrightarrow} 00000$$

$$200 \stackrel{f(\vec{x}) > 0}{0} 0^{(1,+\infty)} 00000000 \stackrel{a}{=} 00000$$

$$\mathbf{10}_{\square\square\square\square} \ f(x) = (x-1) e^{x} + a(2e-e^{x})_{\square}$$

0100 a = 000000 f(x) 000 X = 10000000

 $300000 \ f(x) > 0 \ x \in (2, +\infty) \ 0000000 \ ^20000.$

$$1100000 f(x) = \left(a - \frac{1}{x}\right) \ln x (a \in \mathbf{R}).$$

$$010000 \stackrel{Y=f(x)}{=} 00 \stackrel{(1, \ f(1))}{=} 0000000 \stackrel{X+\ Y-\ 1=0}{=} 00 \stackrel{\partial}{=} 000$$

 $300 \, a^{2} = 2 \, 00000000 \, \lambda \, 00000 \, X_{0000} \, f(x) \geq \lambda \, 0000000000 \, \lambda \, 00000000000.$

$$\mathbf{12}_{\square\square\square\square\square} \ f(\mathbf{x}) = (\ln \mathbf{x} - \mathbf{k} - \mathbf{1}) \ \mathbf{x}_{\square} \ \mathbf{k} \in \mathbf{R}_{\square}.$$

 $\square\square\square \ ^{e}\square\square\square\square\square\square\square\square\square$

 $13 \square \square \square \square f(x) = \ln x + 1 + \frac{2a}{x} \square \square (a, f(a)) \square \square \square \square \square \square (0, 4) \square$

(1)___ a_0 _____ f(x)_____



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